PROGRAM

★

THE MARYLAND STATE HORTICULTURAL SOCIETY

★

Forty-Fifth Annual Meeting
JANUARY 6 and 7, 1943

★

Ball Room, Hotel Alexander
Hagerstown, Maryland

The Maryland Fruit Grower
DECEMBER, 1942
Volume 12 **Number 5**

HELPING GROWERS PRODUCE TOP QUALITY CROPS ALL OVER AMERICA!

Produced and sold on a 3-fold principle:

- ★ Sound Comprehensive Research Behind Each Product!
- ★ All Products Adapted to Practical Field Conditions!
- ★ Uniformity of All Materials Assured by High Manufacturing Standards Under Constant Laboratory Control!

When you are planning to use insecticides and fungicides, be sure to specify these reliable, tested Orchard Brand Products.

ARSENICAL INSECTICIDES:

- Arsenate of Calcium
- Arsenate of Lead, "Astringent"
- Arsenate of Lead, Standard
- Arsenate of Lead, Basic
- Arsenite of Zinc
- Copar* Dust (copper-arsenic)
- Potato Copar* Dust
- Kalinex* Dust (sulfur-calcium arsenate)
- Parical* Dust (Paris Green-calcium arsenate)
- Parisul* (Paris Green-sulfur dust)
- Paris Green
- Potato Spray (contains fungicide)
- Zintox*, A Basic Zinc Arsenate

NON-ARSENICAL INSECTICIDES:

- CopRote* Dust (copper-rotenone)
- Nicotine Sulfate 40%
- Rotenone Dust
- Rotenone "400" Spray
- Rotenone-Sulfur Dust
- Stafast*

COPPER FUNGICIDES:

- Bordeaux Mixture
- Copar* Dust (copper-arsenic)
- Potato Copar* Dust
- Copper Sulfate (crystal and monohydrate)
- CopRote* Dust (copper-rotenone)
- Dus-Cop* (copper dust)
- Potato Spray (contains insecticide)
- Spraycop* Copper Fungicide

SULFUR FUNGICIDES:

- Agricultural Sulfurs
- Apple Dritomic* Sulfur, an activated wettable sulfur
- Dritomic* Sulfur, a wettable sulfur for peaches and other stone fruits, also apples
- Dry Lime Sulfur
- Lime Sulfur Solution
- Micro-Spray* Sulfur, wettable sulfur of true microscopic particle size
- Sulfur-Rotenone Dust

*Reg. U. S. Pat. Off.

Write immediately to nearest address to the right for FREE folders with dust and spray schedules!

GENERAL CHEMICAL COMPANY
40 RECTOR STREET, NEW YORK, N. Y.

Technical Service Offices: Atlanta • Baltimore • Boston Bridgeport (Conn.) • Buffalo • Charlotte (N. C.) • Chicago Cleveland • Denver • Detroit • Houston • Kalamazoo • Kansas City Milwaukee • Minneapolis • New York • Philadelphia Pittsburgh • Providence (R. I.) • St. Louis • Utica (N. Y.)
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PROGRAM

* * * *

Forty-Fifth Annual Meeting

THE MARYLAND STATE HORTICULTURAL SOCIETY

HAGERSTOWN, MARYLAND

WEDNESDAY AND THURSDAY, JANUARY 6 AND 7, 1943

Meetings beginning Wednesday, January 6, 1943

* * * *

GENERAL INFORMATION

All meetings will be held in the Ball-Room, Hotel Alexander.

There will be *no commercial exhibit* but commercial representatives will have table-space adjoining the meeting room.

Parking space with unlimited time, is located 2 blocks north of Hotel on North Potomac Street. Indoor or outdoor parking or storage is available within 2 block of the Hotel.

Time of speakers and discussions is not exact and necessary changes may be made. Be on time to avoid missing the various discussions.

THE ANNUAL DINNER will be held in the Main Dining Room, Hotel Alexander, at 6:30 p. m. Wednesday. Tickets $1.50 each. The ladies are especially invited. Get tickets early.

The Program Committee and Executive Committee have tried to arrange a program dealing with pertinent production and marketing problems. The meeting is worthy of full attendance. Save gas and tires. Share the cars. Come by bus or train. Plan to be there.

Apple Exhibit will be held at Lord Baltimore Hotel, Baltimore, January 13 and 14, 1943, in connection with Annual Meeting of Maryland Farm Bureau and Affiliated Farm Organizations.

OFFICERS—1942

President—STANLEY M. FULTON Hancock

1st Vice-President—DWIGHT T. WALKER, Mt. Airy

2nd Vice-President—LLOYD BALDERSTON, Colora

Executive Committee—R. S. Dillon, Jr., Hancock; A. Lee Schrader, College Park; O. R. Higgins, Hurlock; W. C. Main, Hagerstown; D. E. Rinehart, Smithsburg; E. C. McFadden, Hagerstown; S. B. Waddell, New Windsor; R. C. Shaw, Stewartstown; G. R. Canby, Silver Spring.

Director to Maryland Farm Bureau—J. A. Cohill, Hancock

Delegates to Maryland Farm Bureau—M. T. Heaps, Cardiff; E. D. McCain, Frederick

Directors to Appalachian Apple Service—E. D. McCain, Frederick; W. T. Delaplaine, Frederick

* * * *

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WEDNESDAY AFTERNOON AND EVENING PROGRAM ON PAGE 8

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THURSDAY AFTERNOON PROGRAM ON PAGE 18

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Start Right. Read Every Advertisement.

WEDNESDAY, JANUARY 6th

Morning Session

10:15 Colored Movie—The Life of the Soil—Courtesy of National Fertilizer Association, Washington, D. C.

10:45 What About National Publicity for Peaches?—C. R. Miller, President, National Peach Council, Martinsburg, W. Va.

11:00 The Nitrogen Fertilizer Supply as it Affects the Fruit Grower —F. E. Bear, Soil Chemist, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

Annual Membership in the Maryland State Horticultural Society costs one dollar. Members receive The Maryland Fruit Grower (quarterly), the Proceedings, and Fruit-Growers' News-Letters. Are you a member?

BUY BONDS—"That government of the people, by the people, for the people shall not perish from the earth"—Abraham Lincoln

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Delay may not Pay. Better Order Now.

HAVE YOU NOTICED?

SUCCESSFUL SPRAY PROGRAMS

INCLUDE

ELGETOL Spray

KLEENUP Dormant Oil

KOPPERS FLOTATION Sulfur

ORTHEX Spreader-Adhesive

ORTHOL-K Summer Oil

ORTHO Dry Spreader

FRUITONE Hormone Spray

BLACK LEAF 155

* * * *

SCIENTIFIC ORTHO PEST CONTROL

California Spray-Chemical Corporation

Elizabeth, N. J.

Buy what you Need. Need what you Buy.

TO THE

APPLE GROWERS OF MARYLAND

AND THE MEMBERS OF

**THE MARYLAND
STATE HORTICULTURAL SOCIETY**

we extend our best wishes

* * * *

It has been a pleasure to serve you our

SUNSET OILED APPLE WRAPS

and

SUNSET SHREDDED OILED PAPER

* * * *

Fred C. Strype, Inc.

NEW YORK, N. Y.

AS A FRUITFUL SEASON ENDS

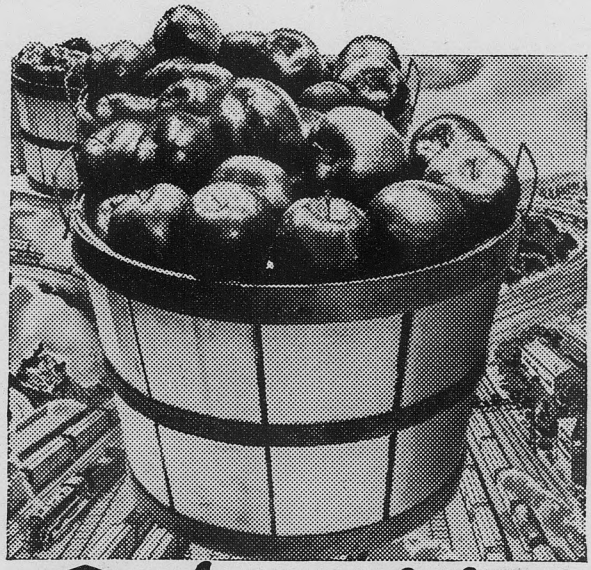
-Plan for '43

TAKE NOTE NOW OF DN-DRY MIX (WETTABLE)
AND DN-111

Growers are to be congratulated on the way the call for abundance was answered in 1942. Next year the demands of a hungry world for the fruits of your orchards and groves will be even greater. Undoubtedly you are planning now to meet it.

Ask your state experiment station or your dealers how Dow spraying materials fit into your program for more and better fruit.

Dow has a spraying material—and a good one—for every purpose.



DOW *Insecticides*

DN DORMANT SPRAYS

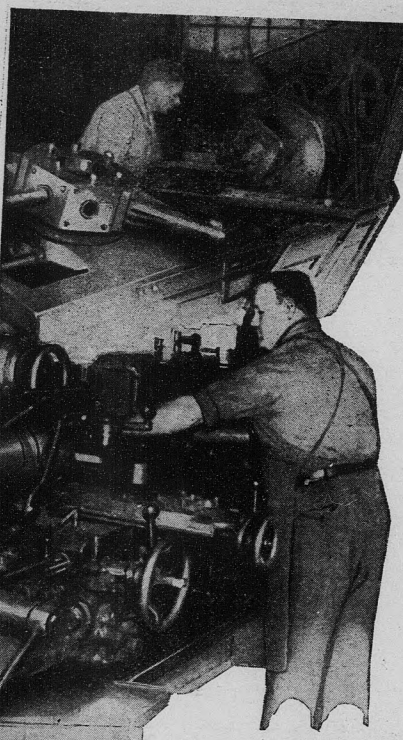
THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN

NEW YORK ST. LOUIS CHICAGO

*Trade Mark Reg. U. S. Pat. Off.

Save this Program for Advertisers' Addresses.

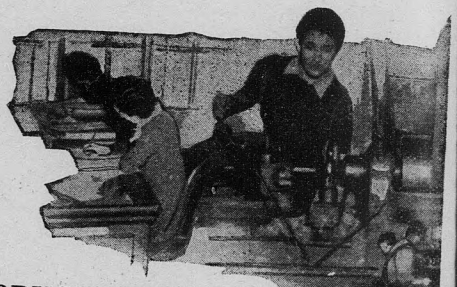


We are working for the

VICTORY

For many months, most of the "Friend" organization's efforts have been devoted to the production of equipment for our Armed Forces.

Winning the War is the job that comes first.

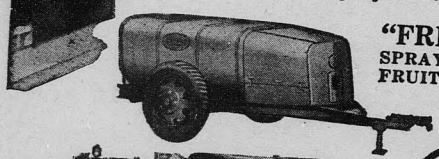


FOOD PRODUCTION IS ALSO ESSENTIAL

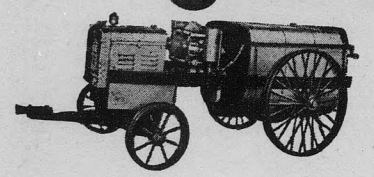
Our government fully appreciates the grower's equipment needs — their importance is secondary only to that of actual tools of warfare.

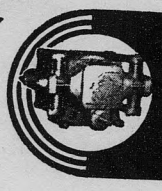
Here at "Friend" we are doing our very best, under the conditions existing, to meet the needs of our customers.

We are looking forward, with real pleasure, to the day when we can again furnish thousands of growers *the Simplest and Most Reliable Sprayer built.*



"FRIEND" MFG. CO.
SPRAYERS . . DUSTERS
FRUIT SIZERS & CLEANERS
GASPORT, N. Y.





Easiest to Maintain in Working Order --
Fewest Moving Parts
"FRIEND"

We are working for the

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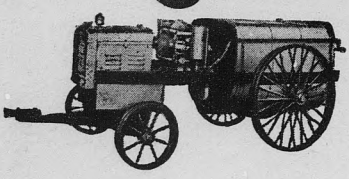

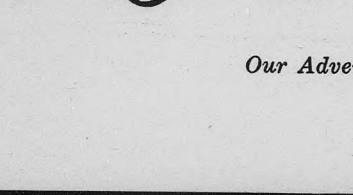

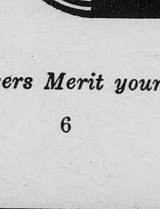

Easiest to Maintain in Working Order --
Fewest Moving Parts
"FRIEND"

Our Advertisers Merit your Business.

TAKE CARE OF YOUR SPRAYER - - - IT MAY HAVE TO LAST A LONG TIME.
DO THESE THINGS

GENERAL
1 - Clean entire machine.
2 - Oil or grease exposed parts to prevent rust.
3 - Repaint, if necessary.

PUMP
1 - Inspect packing and cylinders
2 - Inspect and clean valves and gaskets. Replace parts where absolutely necessary.
3 - Check gears, alignments and loose bearings.
4 - Check wrist-pins and other points for looseness.
5 - Enclosed pumps may need new oil seals and plunger-rod packing.
6 - Renew oil in enclosed pumps. Run pump enough to oil-coat parts.

PRESSURE REGULATOR
1 - Inspect diaphragm rubber or leather cup.
2 - Inspect valve ball and seat directly above stem. Important.
3 - Have good, tight packing around top of stem.
4 - Adjust stem according to instruction book.

DRIVE PARTS
1 - Gear Drive - Adjust gears to mesh properly.
2 - Chain Drive -Remove chain, clean in kerosene, oil thoroughly and replace. Check sprocket alignment and adjust chain tension.
3 - V-Belt Drive -Keep belts clean and tight. No slipping.
4 - Power Take-Off Universals - Bad wear indicates poor hook-up or careless turning operation. Grease the sliding square shaft.

ENGINE
1 - Check compression.If necessary grind valves and overhaul pistons.
2 - Check for loose bearings.
3 - Clean and adjust spark plugs.
4 - Clean outside of radiator. A clogged radiator can't cool the engine.
5 - Check magneto. Take to service station for repairs if necessary.

SUCTION TO PUMP
1 - Clean strainer screen.
2 - Inspect suction hose. It must not leak air.
3 - Check all pipe connections.

TANK
1 - Steel Tank - If inside is O.K. do not disturb. If rust pits are present, clean and coat with heavy oil or light grease.
2 - Wood Tanks - Hoops may require tightening. Be careful and loosen as necessary when tank swells next spring.
3 - Agitator - May require overhauling. Use water-pump grease in bearings.

TRUCK AND FRAME
1 - Tighten all loose bolts.
2 - Have any cracks or breaks in frame welded.
3 - Inspect wheel bearings and pack with grease.
4 - See that hitch is in good shape.

DISCHARGE EQUIPMENT
1 - Remove hose, clean it, and store in cool, dark place.
2 - Spray guns should be cleaned thoroughly and parts oiled.
3 - Nozzle parts,not including gaskets, should be cleaned and stored in oil.

DON'T LET RUBBER-TIRED MACHINES STAND ON A CINDER FLOOR.
BLOCK RUBBER-TIRED MACHINES UP OFF THE FLOOR TO SAVE TIRE SIDE-WALLS.
BE SURE THAT WATER BALLAST IN TIRES CONTAINS SUFFICIENT ANTI-FREEZE. IN MIXING ANTI-FREEZE TRACTOR TIRE BALLAST, USE 2 LBS. COMMERCIAL FLAKED CALCIUM CHLORIDE DISSOLVED IN 1 GAL. WATER.
BE SURE THAT ALL DRAIN PLUGS ARE REMOVED FROM PUMP AND RADIATOR TO AVOID FREEZING.
GET AN INSTRUCTION BOOK FROM YOUR SPRAY SERVICE MAN. READ IT.
ORDER PARTS THAT ARE ABSOLUTELY NEEDED.
KEEP ONLY ENOUGH SPARE PARTS FOR EMERGENCIES.

* * * * * * * * *

A POOR SPRAY JOB IS A WASTE OF

MATERIALS, MAN-POWER AND CROP.

TACK THIS SHEET TO WALL OF THE SHOP

Agricultural Extension Service, University of Maryland, College Park, Md.

Supplement to December, 1942, Maryland Fruit Grower.

The Forty-Fifth Annual Meeting of the Maryland State Horticultural Society.

In these times of necessity and uncertainty, it was felt that the fruit-growers should meet to discuss the problems, both past and future, that confront the grower and industry. A one-day meeting seemed too short so the usual two-day program was planned. The program is diversified and considers several phases of our problems. The colored movies are special features. See them.

A good attendance is desired. It encourages the committees and speaker, it strengthens the Society, and most important, it should assist the growers in their orchard operations. Every commercial fruit grower should be present to hear, and enter into the discussions. Plan to be there for every event. The first and last speakers on the program are important. Come early and stay late. Share the cars and save tires and gas. All fruit growers everywhere are cordially invited. Bring your neighbors.

The Outlook.

The Agricultural Situation, November 1942, (Bureau of Agricultural Economics, U.S. Department of Agriculture) states in part:

"FRUIT - In 1943, fruit growers in general will receive higher prices for their crop than the average prices they received in 1942. However, ceiling prices at the retail level have been temporarily established for citrus fruits, and they may be placed on some other fresh fruits during the next year.

"It is likely that the fruit crop in 1943-44 will be slightly smaller than the bumper crop in 1942-43. Since military and lend-lease requirements in 1943-44 will be substantially above those for the preceding years, the total amount of fruit on a fresh equivalent basis available for civilian consumers will be considerably less.

"The decrease from 1942-43 in the total supply of fruits marketed fresh, probably will be greater than the decrease in total production. Although the quantity of fruit canned may be smaller than a year earlier because of tin plate restrictions, the quantity dried is likely to be substantially increased. Therefore, the total quantity used for canning and drying will be larger than in 1942-43.

"The War Production Board, through a recent order, acted to prevent the depletion of canned fruit and juice stocks before the 1943-44 pack comes on to the market. This order prohibits canners from shipping during certain periods more than a specified percentage of their packs available for civilian consumption. For instance, at least 30 percent of their total civilian supply cannot be shipped prior to April 1, 1943. Since the civilian demand for canned fruits this season at ceiling prices is greater than the supply available, there would have been little or no stocks available toward the end of the current season if inventory controls had not been instituted."

"Supplies of several insecticides and fungicides will be tight, but with careful handling essential needs probably can be met. Only enough pyrethrum and rotenone will be available for the most essential agricultural uses. It will be imperative that sprays using copper, such as bordeaux mixture, be rigidly economized. The Secretary of Agriculture has approved a program to divert 25,000,000 pounds of tobacco for manufacture of nearly 2,000,000 pounds additional nicotine sulfate as a substitute for some other spray materials."

CARE OF SPRAYERS

On the reverse side of this sheet are some suggestions on sprayer repair. It was sent out by R.D.Malin, Service Department of John Bean Mfg. Company, who stated that it could be adapted to any type of spray machine. Some changes have been made for brevity, and some suggestions have been added. KEEP IT, AND TACK IT UP IN THE REPAIR SHOP.

A. F. Vierheller,
Extension Horticulturist,
University of Maryland.

- NOW -

It should be to your interest to place your order NOW for the 1943 season. Many spray materials are affected by war conditions. Some are scarce—some are allocated.

MILLER

MARYLAND GROWERS know the value of MILLER'S sprays—know also that MILLER has the most complete line of insecticides and fungicides manufactured in Maryland.

ORTAZOL DINITRO POWDER
ORTAZOL OIL EMULSION
HY-TOX OIL EMULSION "83"
MISCIBLE OIL
SUMMER OIL "V"
NU-FILM—sticker and spreader
TUBACIDE—rotenone spray
MILLER DEPOSIT BUILDER
LIME SULPHUR—WETTABLE SULPHUR—
ARSENATE OF LEAD—COPPER SPRAYS—
SPRAYS and DUSTS for every purpose

MILLER PLANTS are located to render you real service during this emergency.

MILLER CHEMICAL & FERTILIZER CORP.

Baltimore, Md. U. S. A. Whiteford, Md.

WEDNESDAY, JANUARY 6th

Afternoon Session

1:30 Invocation—Rev. W. R. Hartzell, Superintendent, Reformed Church Home, Hagerstown, Md.

Address of Welcome—E. M. (Ell) Ellinger, President, Rotary Club, Hagerstown, Md.

President's Address—Stanley M. Fulton, Hancock, Md.

Report of Secretary-Treasurer—A. F. Vierheller, College Park, Md.

Appointment of Committees

2:15 Dehydration and Freezing as Factors in Marketing Maryland's Fruit and Vegetables—C H. Mahoney, Head, Horticultural Department, University of Maryland, College Park, Md.

Progress of Dehydration Investigations in Maryland—A. L. Schrader, Pomologist, University of Maryland, College Park, Md.

3:15 Some Changes in the Package Situation for 1943—L. C. Carey, In Charge, Container Standardization, Fruit and Vegetable Branch, Agricultural Marketing Administration, Washington, D. C.

3:45 Prospects for Agriculture in the Post-War Period—
—R. B. Corbett, Director, Maryland Agricultural Experiment Station, College Park, Md.

4:15 Colored Movie—Types of Spraying Equipment in Delaware Orchards—Courtesy of Horticultural Department, University of Delaware, Newark, Del.

6:30 ANNUAL DINNER

Main Dining Room, Hotel Alexander, Hagerstown

Magic—Harry H. Baker, Washington, D. C.

Music

Movie—"A Battle on Our Hands"

"Surrender? We've just begun to fiight."—John Paul Jones

BUY BONDS AND STAMPS

THURSDAY MORNING PROGRAM ON PAGE 12

TOMATO plants use more potash than phosphoric acid and nitrogen combined. For best results from high-potash fertilizers, broadcast and plow under from one-half to three-fourths of the total amount. The balance may be applied in bands beside rows at planting time or as a side-dressing. Properly applied high-potash fertilizers insure large yields of high quality tomatoes.

AMERICAN POTASH INSTITUTE, INC.

1155 Sixteenth Street, N. W. Washington, D. C.

Buy what you Need. Need what you Buy.

REPAIRS AND NEW PARTS DEFINITELY ARE AVAILABLE

The Hardie is designed and built to measure up to its task easily, smoothly and with a big surplus of power and capacity above its rating. Any Hardie will do more than is claimed for it. Repairs and replacements are easily and inexpensively made because of the inherent advantages of Hardie exclusive pump design.

PROMPT, complete, economical cooperation in repair, reconditioning and maintenance of Hardie Sprayers is pledged to Hardie owners everywhere. Any Hardie, however old, still is a good sprayer. Get it ready for duty. Service and new parts are immediately available in this area.

Sold and Serviced by
George Bell, Hagerstown, Md.
The Hardie Mfg. Co., Manufacturers, Hudson, Mich.

THE ONLY SPRAY PUMP THAT IS *Completely Lubricated*

HARDIE

DEPENDABLE SPRAYERS

Make this Program your Shopping Guide.

MARKETING INSURANCE

"They See the Package First"

Orders **placed now** for **"Jersey"** baskets insure the attractive marketing and safe distribution of your fruits and vegetables to our armed forces and supporting workers at home—it is your patriotic duty.

Jersey Package Company

Phone 473 **Bridgeton, N. J.** **Phone 472**

Three Factories—Bridgeton, Vineland, Millville

KOPPERS FLOTATION SULPHUR

IMPROVED

New plant equipment has been installed during the past year to give you even better qualities in this micro-fine sulphur.

Dry Wettable

90% sulphur. Only minimum quantities of wetting agent are added, yet it wets rapidly. Disperses readily. Packed in 8 lb. bags, 6 to carton, and in 50 lb. bags.

Dust

90% sulphur. Free-flowing and non-caking. Packed in 50 lb. bags.

Paste

A pre-creamed paste. Proven by years of use.

80% of particles
under 4 microns.

KOPPERS COMPANY

Pittsburgh, Pa.

Tar and Chemical Division

THURSDAY, JANUARY 7th

Morning Session

9:30 Modifications in Our Orchard Program for 1943.

What Place Will Blossom Removal Have in the War-Time Orchard Program?—L. P. Batjer, Senior Horticulturist, U. S. Horticultural Station, Beltsville, Md.

Must We Make Changes in Spray Materials?—E. N. Cory, State Entomologist, University of Maryland, College Park, Md.

What Changes Can Be Made in Pruning Methods to Save Labor and Nitrogen Fertilizer Application?—A. L. Schrader, Pomologist, University of Maryland, College Park, Md.

11:00 What is Wrong With Our Control of Rosy Aphis?—W. S. Hough, Entomologist, Winchester Research Laboratory, Winchester, Va.

11:30 A Canner's View of Our Outlets in 1943 for Canning Stocks of Apples and Peaches—M. E. Knouse, Canner and Fruit Grower, Peach Glen, Penna.

THURSDAY AFTERNOON PROGRAM ON PAGE 18

SAVE SCRAP. Make sap outta Japs.

TO SERVE MARYLAND FRUIT GROWERS BETTER

We have plants located at Hagerstown, Md., Gettysburg, Milton, Butler, Lebanon, Everett and Chambersburg, Pa., Harrisonburg, Crimora and Elkton, Va.

This enables us to give you prompt and efficient service.

SPRAYS AND DUSTS FOR EVERY PURPOSE

Dowspray Dormant, Tar Oil Emulsions, 83% Oil Emulsion, Elgetol, Lime Sulphur Solution, Roof Paint, D. N. Powder, etc., etc.

FERTILIZER FOR ALL CROPS

CENTRAL CHEMICAL CORPORATION

General Office—Hagerstown, Md.

Order Now and Have It When Needed.

For - - -

WETTABLE
and
DUSTING SULPHURS

ROTENONE
and
PYRETHRUM MIXTURES

CRYOLITE
TARTAR EMETIC
BORAX

and other materials for soil treatment
and weed eradication such as:

"TRIANGLE" BRAND COMMERCIAL FLOUR SULPHUR
"TORO" AGRICULTURAL SOIL SULPHUR
CARBON BISULPHIDE

COME TO

STAUFFER CHEMICAL CO., Inc.

Sales Office: 420 Lexington Ave., New York City
Plant: Bayonne, New Jersey

* * * *

RICE, TREW & RICE COMPANY

MANUFACTURERS

of

Paper Supplies

for

FRUITS AND VEGETABLES

Always At Your Service

Main Office: Biglerville, Pennsylvania

* * * *

at the sign of QUALITY!

A cooperative service with a complete line of Fertilizer, Spray Materials, and Orchard Supplies. Savings from cooperative buying are annually returned to patrons in patronage refunds.

* * * *

See Your Nearest Cooperative Service Agency

* * * *

Southern States Cooperative

RICHMOND, VIRGINIA

Save this Program for Advertisers' Addresses.

We Specialize . . .

In Furnishing the

FRUIT GROWERS

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MARVIL PACKAGE CO.
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THURSDAY, JANUARY 7th

Afternoon Session

1:30 Reports of Committees—Election of Officers—Business Session

2:00 Effect of War on Our Present and Future Markets—
F. B. Bomberger, Coordinator on Marketing, University of Maryland, Extension Service, College Park, Md.

2:45 Chain Store Organizations in the War-Time Publicity and Marketing Program for Apples and Peaches—
C. B. Denman, Agricultural Counsel, National Association of Food Chains, Washington, D. C.

3:30 How Can We Meet the Labor Problem for the Orchard?—
S. H. DeVault, Secretary, Maryland State Farm Labor Committee, College Park, Md.

ADJOURNMENT.

"Torpedoes be damned. Full speed ahead."—David Farragut

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KESOE 83—An improved stabilized oil emulsion containing 83% by volume petroleum oil. May be combined with Lime Sulfur, Wettable Sulfur, Bordeaux, or Nicotine for dormant or delayed dormant spray.

KESOE 66—66⅔% by volume petroleum oil emulsified with GOOD'S Potash Fish Oil Soap.

FISH OIL SOAPS—For making your own emulsions with petroleum oil, ethylene dichloride, paradichlorobenzene, carbon bisulfide, etc. Efficient wetting and spreading agents and stickers, giving added insecticidal value to your spray mixtures.

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KOLOSPRAY—A Bentonite Sulphur spray for late season applications for the control of sulphur-susceptible diseases of fruits.

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CUCURBIT DUST—Copper Oxychloride Sulphate plus Calcium Arsenate for disease and insect control on cucumbers and melons.

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SUSPENSO LEAD ARSENATE—The outstanding Lead Arsenate spray. Better coverage betters the fruit.

NICOTINE—Black Leaf 40, Nicotine Dust and other Nicotine products.

NEU-ROTE—A general insecticide for use in the Home Garden, Market Garden or Fruit Orchard—concentrated Pyrethrum-Rotenone.

CALCIUM ARSENATE—Maximum killing power without injury to the plants.

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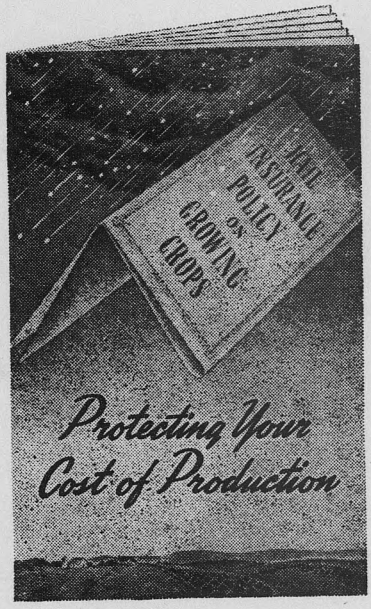

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3 lbs. arsenate of lead per 100 gals. with D-X does a better job of codling moth control than 6 lbs. used alone.

It is estimated that we will have to get along this coming year with 80% of our former requirements of arsenate of lead. But this will not bother the apple grower who is using D-X. He has already been doing this.

Have you been caught in the futile race of increasing dosage, more and more sprays, with the codling moth injury building up just the same? If so, it is time to do something about it. Do what the most successful apple growers have been doing. Fortify your arsenical sprays with D-X. 1½ pints D-X and 3 lbs. arsenate of lead (with or without fungicide) makes the most powerful poison spray that can be devised against codling moth, leaf roller, and hard-to-kill insects.

D-X Rotenone kills live codling moth and larvae on contact. D-X Rotenone impregnates the arsenate of lead with rotenone and pyrethrum so that the insect is paralyzed when it takes a particle into its mouth. D-X Rotenone improves the coating and buildup of the arsenate of lead on the fruit and foliage.

NEW D-X NICOTINE

Supplementing the use of D-X Rotenone is D-X Nicotine, containing nicotine and pyrethrum, making possible the extra values of the famous D-X base where nicotine is indicated and recommended. D-X Nicotine continues to amaze all with its ability to control aphis so completely at 1 to 800. D-X Nicotine has the same impressive property of building up the kill of arsenate of lead against hard-to-kill insects. Use D-X Nicotine in your early sprays for aphis. Use it in combinations with Bordeaux and lime where D-X Rotenone cannot be used. D-X Nicotine coats slightly more than D-X Rotenone, but less than you have been paying for nicotine.

Buy your insecticides early. We are living in an era of scarcity—which includes D-X and D-X containers. In fact D-X Rotenone is now only available for food crop protection sanctioned by the War Production Board.

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Department F

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